

# PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:  
CORNING INCORPORATED  
SP TI 31  
CORNING, NY 14831

## PCT

### NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference SP01-032	Date of Mailing (day/month/year) <b>24 JUN 2002</b>
International application No. PCT/US02/06725	International filing date (day/month/year) 05 March 2002 (05.03.2002)
Applicant CORNING INCORPORATED	

1. ☒ The applicant is hereby notified that the international search report has been established and is transmitted herewith.

**Filing of amendments and statement under Article 19:**

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

**When?** The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

**Where?** Directly to the International Bureau of WIPO, 34, chemin des Colombettes  
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35

**For more detailed instructions,** see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.
3. ☐ **With regard to the protest** against payment of (an) additional fees) under Rule 40.2, the applicant is notified that:
- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

**4. Reminders**

Shortly after **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 *bis*.1 and 90 *bis*.3, respectively, before the completion of the technical preparations for international publication.

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site

Name and mailing address of the ISA US  
Commissioner for Patents  
Box PCT  
Washington, D.C. 20531

Authorized officer:  
Barbara K. Day

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Commissioner for Patents  
Box PCT  
Washington, D.C. 20531

Authorized officer

Basia Rudek

Signature of the Applicant or Agent  
Date of Signature

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference SP01-032	<b>FOR FURTHER ACTION</b>	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below
International application No. PCT/US02/06725	International filing date ( <i>day month/year</i> ) 05 March 2002 (05.03.2002)	(Earliest) Priority Date ( <i>day/month/year</i> ) 13 March 2001 (13.03.2001)
Applicant CORNING INCORPORATED		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

#### 1. Basis of the Report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐

the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐

contained in the international application in written form.

☐

filed together with the international application in computer readable form.

☐

furnished subsequently to this Authority in written form.

☐

furnished subsequently to this Authority in computer readable form.

☐

the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐

the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (See Box II).

4. With regard to the **title**,

☒

the text is approved as submitted by the applicant.

☐

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐

the text is approved as submitted by the applicant.

☒

the text has been established, according to Rule 33.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No. 1

☐

as suggested by the applicant

☐

because the applicant failed to suggest a figure

☐

because this figure better characterizes the invention

\_\_\_\_\_

\_\_\_\_\_

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US/2006/0725

## Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

### NEW ABSTRACT

An improved method and apparatus is set forth for packing substrates (12) in a monolith reactor, wherein the substrates (12) are positioned in a stacked relationship along a longitudinal axis of the reactor housing (10). The stack of substrates (12) is supported in a fixed position at the bottom of the stack, and the upper end of the stack is provided with a predetermined constant compression to not only compensate for different expansions between the stacked substrates (12) and the reactor housing (10), but also to hold the stacked assemblies (16) together in a tight relationship so as to prevent deleterious vibration of the substrates (12). The compression is preferably applied by spring-loaded means (48), which may be adjusted by threading a nut (50) against the loading spring (44).

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/06725

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : B01J 8/04, 35/04

US CL : 422,221, 222

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 422/221, 222, 171, 177, 179, 180, 190, 191, 193, 211

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4,195,064 A (BETTEKEN et al.) 25 March 1980 (25.03.1980), Fig. 1-11.	1-20
Y	US 4,743,578 A (DAVIDSON) 10 May 1988 (10.05.1988), Fig. 1-14.	1-20
Y	US 5,527,631 A (SINGH et al.) 18 June 1996 (18.06.1996), Fig. 1-5.	1-20
Y	US 6,019,951 A (SIE et al.) 1 February 2000 (01.02.2000), Fig. 1-5.	1-20
A	US 5,108,716 A (NISHIZAWA) 28 April 1992 (28.04.1992)	1-20
A	WO 96/33017 A (TECHNISCHE UNIVERSITEIT DELFT) 24 October 1996 (24.10.1996)	1-20

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

\* Special categories of cited documents

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;"

document member of the same patent family

Date of the actual completion of the international search

18 May 2002 / 18-05-2002

Date of mailing of the international search report

Name and mailing address of the ISA/US

Commissioner of Patents and Trademarks  
Box 181

Washington, DC 20514

Facsimile No. (703) 351-2233

Authorized officer

Basia Ridley

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